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A study on Awareness and use pattern of Information and Communication Technology among rural farmers

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Abstract

Information and communication technology is a set of tools that are used in rural areas for the development of villagers and farmers. ICT include computer hardware, computer software, radio, television, mobile phones, digital camera and other application software's that are used for agriculture sector. The development in rural areas has been increased as compared to previous years. The farmers now used techniques and procedures to enhanced their products and maintain the cost and quality of their products. ICT also provide the training to the farmers/ farm women entrepreneurs who want to run their small business by availing the credit facilities through various training institutes of Banks (Mir and Kumar, 2017). Nowadays ICTs are playing a focal role in the development process of any country. In today's life Technology became a part of life and livelihood. In this digital era, India is using ICTs to promote their development programs as well as reaches to the poor to strengthen their lively hood (Kumar and Maheshwary, 2015). Considering these facts the study was conducted in Hisar district with objectives to study the inter-gender analysis on ownership of mobile phone, reason for having a mobile phone and awareness and use of different ICT tools and services. Results revealed that 100.00 percent of male respondents and 64.00 percent of female respondents have possessed their own mobile phone. 38.00 percent of male respondents and 47.00 percent of the female respondents had mobile without internet connection whereas 62.00 percent of male respondents and 17.00 percent of female respondents having mobile with internet connection. Majority of respondents have given the reason for having a mobile phone that phone was required for connecting with relatives and friends followed by listening music and social networking. 100.00 percent of male and 89.00 percent of female respondents who were having mobile phone without internet connection were aware of making calls and 100.00 percent of male and 61.00% female respondents were using mobile phone without internet connection for calling. Respondents having mobile phone with internet connection, majority of male respondents (72.00 %) reported that they were aware of memory stick followed by making calls and Games/ movies/ songs (70.00%), Music/ Photography and SMS (58.00%). In case of female 84.00 percent of female respondents were aware of making calling followed by use of memory stick (56.00%), games and movies (53.00 %) and SMS (51.0%). Only 22.00 percent of male and 2.00 percent of female respondents had account on Facebook and also assessed different internet sites for educational purposes.

Keywords: Information and communication technology, Awareness and Use

Introduction

Information and communication technology is a set of tools that are used in rural areas for the development of villagers and farmers. ICT include computer hardware, computer software, radio, television, mobile phones, digital camera and other application software's that are used for agriculture sector. The development in rural areas has been increased as compared to previous years. The farmers now used techniques and procedures to enhanced their products and maintain the cost and quality of their products. ICT also provide the training to the farmers/ farm women entrepreneurs who want to run their small business by availing the credit facilities through various training institutes of Banks (Mir and Kumar, 2017) [4]. In a developing economy like India, ICT has developed an education, health, human right promotion, communication, economic growth and goverence and other areas (Tripathi *et al.* 2012) [7]. ICTs are playing a focal role in the development process of any country. In today's life Technology became a part of life and livelihood. In this digital era, India is using ICTs to promote their development programs as well as reaches to the poor to strengthen their lively

hood (Kumar and Maheshwary, 2015) [2]. ICT can facilitate speedy, transparent, accountability, efficient and effective interaction between the public, citizens, business and other agencies. It was the situation when we want to send a letter or message, many days were required. Today, e-mail facility, social media have made it possible to cover a large distance in very small time. ICT as an enabler has broken all bounds of cost, distance and time (Rajamohan and Dhanabalan, 2013) [6]. In rural areas, one cyber is sufficient to make the rural citizens known to ICT. The ICT kiosk movement has been able to create a stir in local communication in terms of knowledge and know-how about the use of technology for accessing information and using it as a better livelihood. (Naryanan and Gaurav, 2009) [5]. Considering these facts the study was conducted in Hisar district with objectives to study the inter-gender analysis on ownership of mobile phone, reason for having a mobile phone and awareness and use of different ICT tools and services.

Methodology

Research work was carried out in Hisar district of Haryana state. Two blocks viz. Hisar-I and Hisar –II were selected randomly. Out of these two blocks, five villages namely Mangali and Kaimari from Hisar–I block and Ludas, Tokas and Singhran from Hisar-II block were selected under AICRP project. A list of farming families with ICT usage in selected villages was prepared after discussion with Anganwadi workers, helpers and key leaders. Thus a total 200 respondents

(100 female and 100 male farmers) preferably from same family were selected who had access to mobile. Data were collected personally on inter-gender analysis on ownership of mobile phone, reason for having a mobile phone and awareness and use of different ICT tools and services. Intergender qualitative data were analyzed and interpreted to draw meaningful inferences through percentage.

Results and Discussion Organizational participation by gender

The results in Table 1 regarding organizational participation revealed that only 4.00 percent of female and 2.00 percent of male respondents had occasionally participated in Self Help Groups followed by 2.00 percent of female respondents who were regularly participated in Self Help Groups. All the respondents never participated in any programmes organized by Mahila Mandal, Zila panchayat and Taluk panchayat.

Table 1: Percent distribution of respondents according to organizational participation N=200 (100 male+100 female)

Organization	Extent of participation					
	Regularly		Occasionally		Never	
	Male	Female	Male	Female	Male	Female
Self Help Group	-	2.00	0.00	4.00	100.00	94.00
Anganwadi centre	-	18.00	00.00	23.00	100.00	59.00
Mahilamandal	-		-	-	100.00	100.00
Gram Panchayat	3.00	1.00	4.00	3.00	93.00	96.00
Zila panchayat	-	-	-	-	100.00	100.00
Taluk panchayat	-	-	-	-	100.00	100.00

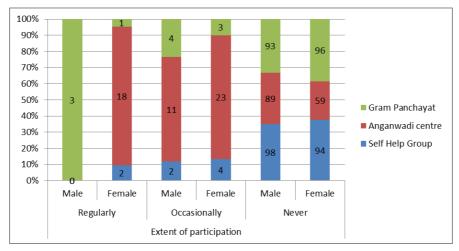


Fig. 1: Percent distribution of respondents according to organizational participation

Extension contact of the respondents: The data regarding extension contact in Table 2 revealed that 46.00 percent of male respondents had regular extension contact with Bank personnel followed by VLEW (29.00%), university personnel (27.00%) and extension officers (24.00%). Whereas 19.00 percent of female respondents had regular extension contact with extension officers followed by university personnel

(15.00%) and VLEW (12.00%). On the other hand 66.00 percent of male respondents and 64.00 percent of female respondents had occasional extension contact with university personnel as they have attended different trainings, kisan mela and other programmes which were organized by university personnel from time to time.

Table 2: Percent distribution of respondents according extension contact N =200 (100 male+100 female)

Extension Contacts		Regularly		Occasionally		Never	
Extension Contacts	Male	Female	Male	Female	Male	Female	
VLEW	29.00	12.00	57.00	31.00	14.00	57.00	
Extension Officer/ KVK Scientist	24.00	19.00	52.00	35.00	19.00	46.00	
University Personnel	27.00	15.00	66.00	64.00	7.00	21.00	
NGO Personnel	4.00	11.00	20.00	33.00	76.00	56.00	
Bank Personnel	46.00	10.00	54.00	36.00	-	54.00	
Block Personnel	12.00	9.00	43.00	25.00	45.00	66.00	

Ownership of mobile phone: As far as ownership of mobile is concerned, Table-3 describes that hundred percent of male respondents and 64.00 percent of female respondents have possessed their own mobile phone.

Table 3: Percent distribution of respondents according to their ownership of mobile N=200 (100 male+100 female)

Ownership of mobile				
Male	Female			
100.00	64.00			

Reasons for owning a mobile phone by gender: It is clear from the table-4 that 38.00 percent of male respondents and 47.00 percent of the female respondents had mobile without internet connection whereas 62.00 percent of male respondents and 17.00 percent of female respondents having mobile with internet connection. Table further revealed the reason for owning a mobile phone that all the respondents reported that phone was required for connecting with relatives and friends followed by listening music and social networking.

Table 4: Percent distribution of respondents according to their reasons for owning a mobile phone N=200 (100 male+100 female)

S4-4	-	ondent internet	Respondent with internet		
Statements	Male (N=38)	Female (N=47)	Male (N=62)	Female (N=17)	
Prestige/status	0.00	3.00	6.00	5.00	
Other women have it	0.00	0.00	0.00	0.00	
Other family members have it	2.00	6.00	0.00	2.00	
It was gifted	0.00	0.00	1.00	3.00	
It is required for connecting with relatives/friends	38.00	47.00	62.00	17.00	
Social networking	0.00	0.00	35.00	12.00	
Seeking information	4.00	2.00	26.00	6.00	
Music/ Photography	15.00	27.00	12.00	14.00	

Awareness & use of different ICT tools & services

Data presented in table-5 regarding awareness and use of ICT tools and services revealed that 100.00 percent of male and 89.00 percent of female respondents who were having mobile phone without internet connection were aware of making calls followed by memory stick (73.00% male & 56.00% female) and listening music (69.00% and 40.00%). As far as use of mobile phone is concerned table further shows that 100.00 percent of male respondents were using mobile phone without internet connection for calling followed by SMS (54.00 %) and use of memory stick (44.00%). In case of female 61.00 percent of female respondents were using without internet mobile for calling followed by music, photography (26.00 %) and use of memory stick (24.00%).

Respondents having mobile phone with internet connection, majority of male respondents (72.00 %) reported that they were aware of memory stick followed by making calls and Games/movies/songs (70.00%), Music/Photography and SMS (58.00%). In case of female 84.00 percent of female respondents were aware of making calling followed by use of memory stick (56.00%), games and movies (53.00 %) and SMS (51.0%). Results are comparable with Hasan *et al* . (2019) [1] that 23.7 percent farmers had moderate awareness on use of ICT in farm practices while 60 percent and 12.7 percent of the farmers had low and very low awareness on use of ICT based facilities in their farm practices. Table further revealed the use of mobile phone with internet connection

results revealed that 62.00 percent of male and 39.00 percent of female respondents were using phone for making calls, followed by use of memory stick/ card (45.00 & 26.00) and SMS (45.00% & 22.00%). Only 22.00 percent of male and 2.00 percent of female respondents had account on Facebook and also assessed different internet sites for educational purposes. It is evident from table that 45.00 percent of male and 42.00 percent of female respondents were aware for making presentation and only 8.00 and 3.00 percent of male and female respondents were using computers for preparation of presentation and playing games on computer without internet. None of the respondents found, who were using, computer with internet connection. Results are inconsonance with Lokeshwari, 2016 [3] who says that more young farmers are getting involved in making use of ICT services, for agricultural information, they were functionally literate. Farmers use the ICT frequently as and when they needed information. It was observed that exposure of farmers to mass media was found conducive to utilization of ICT by the farmers.

Table 5: Percent distribution of respondents according to their Awareness & use of different ICT tools & services N=200 (100 male+100 female)

ICT tools and services	Aw	vare	Use				
TCT tools and services	Male	Female	Male	Female			
Mobile without internet							
Calling	100.00	89.00	100.00	61.00			
SMS	62.00	51.00	54.00	19.00			
Memory stick	73.00	56.00	44.00	24.00			
Music/ Photography	69.00	40.00	42.00	26.00			
Mobile with internet							
Calling	70.00	84.00	62.00	39.00			
SMS	58.00	51.00	45.00	22.00			
Memory stick/ Memory card	72.00	56.00	45.00	26.00			
Whats app	51.00	38.00	33.00	23.00			
Facebook	31.00	20.00	6.00	2.00			
Games/ movies/ songs	70.00	53.00	35.00	17.00			
Accessing different internet sites	41.00	22.00	22.00	2.00			
Music/ Photography	58.00	26.00	35.00	22.00			
Computer /laptop w	Computer /laptop without internet						
Office documents/presentations etc.	19.00	42.00	8.00	3.00			
Music/ Photography	21.00	42.00	10.00	3.00			
Computer/laptop with internet							
Office documents/presentations etc.	19.00	42.00	0.00	100.00			
Facebook, social media	18.00	42.00	0.00	100.00			
Accessing different internet sites	19.00	42.00	0.00	100.00			
Music/ Photography	22.00	42.00	0.00	100.00			

Conclusion

The findings revealed that all the male respondents and more than sixty percent of female respondents have possessed their own mobile phone. Majority of respondents have given the reason for having a mobile phone that phone was required for connecting with relatives and friends followed by listening music and social networking. All male and more than eighty five percent female respondents who were having mobile phone without internet connection were aware of making calls. Only 22.00 percent of male and 2.00 percent of female respondents had account on Facebook and also assessed different internet sites for educational purposes.

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